

<b>Mega-TALEX Initial Precision and Recovery</b>		
<b>Analyte</b>	<b>Recovery (Accuracy) %</b>	<b>Precision (RSD) %</b>
2,3,7,8-TCDD	100%	18.7%
1,2,3,7,8-PeCDD	91.2%	7.0%
1,2,3,4,7,8-HxCDD	102%	5.6%
1,2,3,6,7,8-HxCDD	94.1%	7.5%
1,2,3,7,8,9-HxCDD	94%	4.7%
1,2,3,4,6,7,8-HpCDD	95.9%	2.6%
OCDD	97.2%	9.1%
2,3,7,8-TCDF	98%	12.7%
1,2,3,7,8-PeCDF	102.4%	5.3%
2,3,4,7,8-PeCDF	99.6%	3.9%
1,2,3,4,7,8-HxCDF	98.9%	5.4%
1,2,3,6,7,8-HxCDF	99.0%	5.8%
2,3,4,6,7,8-HxCDF	100.1%	6.0%
1,2,3,7,8,9-HxCDF	97.3%	3.3%
1,2,3,4,6,7,8-HpCDF	110.9%	12.5%
1,2,3,4,7,8,9-HpCDF	98.2%	6.9%
OCDF	110.6%	25.0%

Mega-TALEX Initial EDL/LOD/LOQ				
Analyte	Median EDL pg/L	SD pg/L	LOD pg/L	LOQ pg/L
2,3,7,8-TCDD	0.0585	0.00707	0.0798	0.129
1,2,3,7,8-PeCDD	0.0771	0.0143	0.122	0.222
1,2,3,4,7,8-HxCDD	0.0760	0.00688	0.0964	0.145
1,2,3,6,7,8-HxCDD	0.0682	0.00658	0.0882	0.134
1,2,3,7,8,9-HxCDD	0.0695	0.00619	0.0888	0.132
1,2,3,4,6,7,8-HpCDD	0.103	0.0150	0.147	0.252
OCDD	0.176	0.0260	0.255	0.437
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2,3,7,8-TCDF	0.0489	0.00819	0.0743	0.132
1,2,3,7,8-PeCDF	0.0741	0.00936	0.101	0.166
2,3,4,7,8-PeCDF	0.0636	0.00917	0.0925	0.157
1,2,3,4,7,8-HxCDF	0.0647	0.00536	0.0802	0.118
1,2,3,6,7,8-HxCDF	0.0614	0.00645	0.0805	0.126
2,3,4,6,7,8-HxCDF	0.0563	0.00570	0.0720	0.112
1,2,3,7,8,9-HxCDF	0.0773	0.00707	0.0977	0.147
1,2,3,4,6,7,8-HpCDF	0.0728	0.0103	0.105	0.177
1,2,3,4,7,8,9-HpCDF	0.0861	0.0156	0.136	0.244
OCDF	0.166	0.0160	0.216	0.328

Mega-TALEX MDL Study <sup>‡</sup>			
Analyte	Mean pg/L	SD pg/L	MDL pg/L
2,3,7,8-TCDD	0.332	0.0620	0.195
1,2,3,7,8-PeCDD	1.52	0.106	0.333
1,2,3,4,7,8-HxCDD	1.70	0.0948	0.298
1,2,3,6,7,8-HxCDD	1.57	0.118	0.370
1,2,3,7,8,9-HxCDD	1.57	0.0746	0.235
1,2,3,4,6,7,8-HpCDD	1.60	0.0416	0.131
OCDD	3.24	0.293	0.922
2,3,7,8-TCDF	0.327	0.0416	0.131
1,2,3,7,8-PeCDF	1.71	0.0905	0.285
2,3,4,7,8-PeCDF	1.66	0.0655	0.206
1,2,3,4,7,8-HxCDF	1.65	0.0884	0.278
1,2,3,6,7,8-HxCDF	1.65	0.0964	0.303
2,3,4,6,7,8-HxCDF	1.67	0.0994	0.312
1,2,3,7,8,9-HxCDF	1.62	0.0533	0.168
1,2,3,4,6,7,8-HpCDF	1.85	0.230	0.723
1,2,3,4,7,8,9-HpCDF	1.64	0.112	0.353
OCDF	3.69	0.921	2.90

<sup>‡</sup>SGS-AP neither endorses nor recommends the use of MDLs, for a number of scientifically-sound reasons. These data are provided for information purposes only.

## Mega-TALEX Initial Precision and Recovery

Analyte	Recovery (Accuracy) %	Precision (RSD) %
PCB-77	100.6%	8.7%
PCB-81	101.3%	9.1%
PCB-105	111.9%	7.4%
PCB-114	96.8%	12.2%
PCB-118 <sup>#</sup>	153.6%	10.1%
PCB-123	103.8%	9.1%
PCB-126	99.6%	5.2%
PCB-156/157	88.5%	6.6%
PCB-167	91.5%	4.8%
PCB-169	91.8%	7.3%
PCB-189	83.5%	6.3%

<sup>#</sup>PCB-118 value elevated by low lab background. Initial Precision and Recovery Study was **performed at the MDL spiking level (20 pg)**, where lab background can be

<b>Mega-TALEX Initial EDL/LOD/LOQ</b>				
Analyte	Median EDL pg/L	SD pg/L	LOD pg/L	LOQ pg/L
PCB-77	0.135	0.0216	0.200	0.351
PCB-81	0.133	0.0167	0.183	0.300
PCB-105	0.102	0.00974	0.131	0.199
PCB-114	0.100	0.00868	0.126	0.187
PCB-118	0.107	0.0121	0.143	0.228
PCB-123	0.101	0.0104	0.132	0.205
PCB-126	0.107	0.0113	0.141	0.220
PCB-156/157	0.124	0.0183	0.179	0.307
PCB-167	0.0944	0.0113	0.128	0.208
PCB-169	0.101	0.0138	0.142	0.239
PCB-189	0.0808	0.0114	0.115	0.195

<b>Mega-TALEX MDL Study<sup>‡</sup></b>			
Analyte	Mean pg/L	SD pg/L	MDL pg/L
PCB-77	1.34	0.117	0.367
PCB-81	1.35	0.123	0.385
PCB-105	1.49	0.111	0.347
PCB-114	1.29	0.157	0.493
PCB-118	2.05	0.207	0.651
PCB-123	1.38	0.126	0.397
PCB-126	1.33	0.0686	0.216
PCB-156/157	2.36	0.155	0.486
PCB-167	1.22	0.0588	0.185
PCB-169	1.22	0.0890	0.280
PCB-189	1.11	0.0699	0.220

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